23347 5/055/61/000/006/034/063 A001/A101

15.2170

11112, 3109, 3309

AUTHORS:

Azarov, K.F., Balandina, V.V., Grechanova, S.B., Loursedarskiy, V.A.

TITLE:

The structure and properties of iron-containing glasses

PERIODICAL:

Referativnyy zhurnel, Fizika, no 6, 1961; 224, acetract 6D271 (V sb. "Steklopbrazn, sostoyaniye", Moscow-Leningrad, AN SSSR, 1960, 365-

368, Discus. 377 - 379)

The authors investigated magnetochemical and other properties of to-TEXT: ron and boron-free glasses and enamels containing iron. On the basis of data obtained, the authors drew conclusions on the valent and coordination states of Fe2+ and Fe3+ ions and their position in the structural skeleton of the glass. The conclusion was arrived at that iron in boron glasses and enamels was mainly present in the form of Fe2+ cations weakly bound with the glass structure. In boron-free glasces. Pe is present mainly in the trivalent state in the form of PeOg and PeOg groups which are parts of the glass structural skeleton and strengthen the latter. T. Veynterg

[Abstracter's note: Complete translation]

Card 1/1

CIA-RDP86-00513R000103

TIMOSHEV, V. G.; PRIROV, K. A.; RODICHOV, A. V.; BALANDINA, V. V.; VOLKOVA, A. A.; YEL'KIMA, A. V.; MACHIBEDA, Z. I.

Extraction capacity of neutral, exygen-containing organic substances.
Radiokhimia 2 no.4:419-425 '60. (MIRA 13:9)
(Extraction (Chemistry))

PETROV, K.A.; SHEVCHENKO, V.B.; TINOSHEV, V.G.; MAKLYAYEV, F.A.; POKIN, A.V.; RODIONOV, A.V.; BAIANDINA, V.V.; YEL'KINA, A.V.; HAGNIBEDA, Z.I.; VOLKOVA, A.A.

Alkyl phosphonates, diphosphonates, and phosphine oxides as extracting agents. Zhur.neorg.khim. 5 no.2:498-502

F '60.

(Phosphonic acid) (Phosphine oxide)

(Extraction(Chemistry))

27127 S/080/60/033/008/020/022/XX D213/D305

15 2140

AUTHORS &

Azarov, K.P., Balandina, V.V., Lyutsedarskiy, V.A.

TITLE:

Magnetochemical investigations of iron-containing

glasses (enamels)

PERIODICAL: Zhurnal prikladnoy khimii, v. 33, no. 8, 1960,

1900 - 1901

TEXT: In the present work the authors studied the magnetic properties of boron and boron-free glasses (enamel primers for steel) to establish the relation between the position of iron and the properties of the glass, an important factor in the physical chemistry of enamelling. The glasses examined were heated for 4 hours with 5 % ferric oxide at 500 - 1000°C and quenched in water to fix the position of iron at a given temperature. The powdered glass was sieved through a 10,000 openings/cm2 sieve and its magnetic susceptibility determined by Guy's method. To eliminate the presence of ferro-magnetic admixtures in the enamels (glasses) all the ex-

Card 1/4

27127 S/080/60/033/008/020/022/XX D213/D305

Magnetochemical investigations ...

periments were conducted in magnetic fields of 250-400 oersteds. The specific susceptibility was then calculated from

$$x_2 = \frac{x_1 \ell_2^{m_1}}{\Delta p_1 \ell_1^{m_2}} \quad p_2 \tag{1}$$

where x_1 and x_2 - specific magnetic susceptibilities of blank and test samples, m_1 and m_2 - masses of powder in grams, \triangle p_1 and \triangle p_2 - change in weight in grams, l_1 and l_2 - heights of powders in ampoules in cm. The blank used in the experiments was made up of Mohr's salt. The magnetic moments of iron for boron and boron-free enamels increase at 500-700°C which in the absence of ferromagnetic material is due to the rupture of the crystalline lattice of the magnetic material is due to the rupture of the crystalline lattice of Fe₂O₃ and the gradual introduction of iron into the glass structure. This assumption agrees with the findings of the divergence between Weiss constants for iron-containing enamels (-500°K) and for

Card 2/4

APPROVED FOR RELEASE: Wednesday, June 21, 2000 (

CIA-RDP86-00513R000103

KOPE NAME

27127

S/080/60/033/008/020/022/XX D213/D305

Magnetochemical investigations ...

Fe₂0₃ (-2000°K) which indicates a weakening of the bonds between iron atoms. In the 500 - 700°C interval boron-free enamel differs from boron enamel in the magnetic moment value which may be attributed to the relatively high content of Fe3+. With a further temperature increase, from 700-1000°C, an alternating increase and decrease of magnetic moments of iron is observed and at 850-950°C a maximum value of 6.05 Bohr magnetons is obtained (theoretical value for Fe3+ is 5.92). This fact establishes a similarity in the action of boron and boron-less enamel melts on the position of iron at given temperatures. There are 1 figure and 9 references: 3 Soviet-bloc and 6 non-Soviet-bloc. The references to the 4 most recent English-language publications read as follows: H. Cole, J. Soc. Glass Techn., 35, 162, 25-40, 1951; J. De Jong, J. Soc. Glass Techn., 38, 181, 57T-83T, 1954; A.E.M. Abou-El-Azm, J. Soc. Glass Techn. 38, 181, 101T-145T, 1954; J.M. Stevels, Proceedings Intern. Comm. on glass 1, 71, 1954.

Card 3/4

S/080/60/033/008/020/022/XX

Magnetochemical investigations ... D213/D305

ASSOCIATION: Laboratoriya emaley Novocherkasskogo politekhnicheskogo instituta im. Sergo Ordzhonikidze (Enamel Laboratory of Novocherkask, Polytechnic Institute im. Sergei Ordzhonikidze)

SUBMITTED: December 14, 1959

Card 4/4

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R000103

AZAROV, K.F.; BALANDINA, V.V.; CHISTOVA, Ye.M.; RODIONOVA, A.V.

Crystallization of titanium phosphate enamels. Izv.vys.ucheb.zav.;-khim.i khim.tekh. 4 no.4:647-650 '61. (MIRA 15:1)

1. Novocherkasskiy politekhnicheskiy institut imeni Ordzhonikidze, laboratoriya emaley. (Enamol and enameling) (Titanium phosphate)

30202

15.2510

5/080/61/034/011/015/020

D228/D301

AUTHORS:

Azarov, K.P., Balandina, V.V., and Lyutsedarskiy, V.A.

TITLE:

Magneto-chemical investigations of glasses of the

system $Na_{2}0 - P_{2}0_{5} - V_{2}0_{5}$

PERIODICAL:

Zhurnal prikladnoy khimii, v. 34, no. 11, 1961,

2560 - 2562

TEXT: The authors studied the magneto-chemical properties of $Na_2O - P_2O_5 - V_2O_5$ glasses with the aim of tentatively assessing the state of V in such a system. Research into the properties of glasses of the systems $V_2O_5 - P_2O_5$, $V_2O_5 - P_2O_5 - BaO$, and $V_2O_5 - P_2O_5 - BaO$ P205 - Na20 - BaO suggests that V plays an analogous role to P in these systems, and that compounds of V with O should be excluded from the number of glass-forming oxides. The glasses were prepared by heating batches of Na₂CO₃, (NH₄)H₂PO₄, and V₂O₅ in corundum crucibles at 900 - 12000, after which the mixtures were first air-Card 1/3

30202 S/080/61/034/011/015/020 D228/D301

Magnato-chemical investigations ...

cooled and then pulverized. The magnetic susceptibilities of the powders was determined by the Gouy method, the magnetic moment μ of V in the glasses being computed from the formula:

 $\mu = 2.83 \sqrt{\frac{100}{P}} \text{ 2AT}$

where p is the V content of the glass, x - the specific magnetic susceptibility, A is the atomic weight of V, and T is the absolute temperature. These values were compared with the theoretical magnitudes for the effective magnetic moment of different V ions, calculated from

 $\mu = \sqrt{n(n+2)}$

where n is the number of uncoupled electrons. For most of the glasses with a Na₂O content of 40 + 55 mol. % the magnetic moment of V lies in the range 3.14 + 5.36 Bohr magnetons which indicates the predominance of ions with a valency of <5 (V³⁺ and V⁴⁺). In sections with a constant Na₂O content the magnetic moment of V decreases — which corresponds to the rise in the relative concentration of V⁴⁺ ions — as the V₂O₅ content increases at the expense of P₂O₅. Card 2/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R000103

30202

Magneto-chemical investigations ...

S/080/61/034/011/015/020 D228/D301

The authors found that at the highest concentration of Na₂O (50 - 55 mol. %) the experimental values of µ exceed the theoretical values, owing to the presence of crystallization which was discovered in the glasses by microscopic and X-ray techniques. They hence conclude that this method may be used to detect the formation of a crystalline phase in V glasses. There are 3 figures, 1 table, and 12 references: 7 Soviet-bloc and 5 non-Soviet-bloc. The references to the English-language publications read as follows: K. H. Sun, J. Amer. Ceram. Soc. 30, 9, 277, 1947; E.P. Denton et al, J. Soc. Techn. 40, 194, 252, 1956; P.L. Bauton et al, J. Electrochem. Soc., 104, 4, 237, 1957.

ASSOCIATION: Novocherkasskiy polytekhnicheskiy institut, laboratoriya emaley (Enamels Laboratory, Novocherkassk Polytechnic Institute)

SUBMITTED: January 20, 1961

Card 3/3

X

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RD

THE REAL PROPERTY OF THE PROPE

CIA-RDP86-00513R000103

1 12050-03

BDS/EWP(q)/EWT(m)

AFFTC/ASD Pq-4

ACCISSION NR: AP3002696

8/0080/63/036/005/0969/0973

AUTHORS: Azarov, K. P.; Balandina, V. V.

TITLE: Analysis of the system Ha sub 2 - P sub 2 0 sab 5 - V sub 2 0 sub 5 in vitreous state.

SCURCE: Zhurnal prikladnoy khimii, v. 36, no. 5, 969-973

TOPIC TAGS: vanadium, sodium, Man sub 2 0, glass, specific susceptibility, magnetic moment.

ABSTRACT: Authors studied the effect of changes in Ma20 content from 35 to 100 mol. % upon the system Ma20-P205-V205. Purpose of this study was to ascertain the possible positions of vanadium in glasses of the above system. In the first series of tests, the boundaries of the composition areas, dass-forming temperature, fusibility, chemical stability, specific susceptibility and magnetic vanadium moment in the glasses were determined. For determining the composition boundaries and glass-formation temperatures, the batches were melted in 5 ml. porcelain analysis boats inside of a silit-heated furnace. Experiments were carried out at temperatures from 800 to 13000 with 50 degree intervals. The glass samples intended for other tests were melted in 50 ml. corundum crucibles. The melted

Cord 1/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R000103

1 17650-63

ACCESSION NR: AP3002696

glasses were fast-dried in air. The degree of homogeneity and crystallization was ascertained by visual and microscopic observation. A ternary diagram was constructed which included Na₂O content from 35 to 60 mol. %. The largest amount of Na₂O with which vanadium dassessocould be formed was 60 mol. %. The analyzed glasses are characterized by a high tendency to crystallization. The glasses which were the ensiest to fuse were those with a 5 to 15 mol. % V₂O₅ content. A further increase in V₂O₅Content increases the refractoriness. In the glasses containing 35 to 55 mol. % Na₂O, the values of the magnetic vanadium moment were generally within the limite 3.14 to 5.36 Bohr magnetous. When the Na₂O content is constant and the V₂O₅ content is increased at the expense of P₂O₅, the magnetic moment for vanadium is reduced. Orig. art. has: 3 figures and 1 table.

ASSOCIATION: Kafedra keramiki, stekla i emaley Novocherkasakogo politekhnicheskogo instituta (Department of Ceramics, Glass and Enamels, Novocherkassk Polytechnical Institute)

SURMITTED: 24Nov61

DATE ACQ: 24Jul63

ENCL: 00

SUB CODE: CH, MA

NO REF SOV. OOS

OTHER: 002

Cord 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R000103

5/830/62/000/001/002/012 E111/E192

AUTHORS I

Timoshev, V.G., Petrov, K.A., Rodionov, A.V.,

Balandina, V.V., Volkova, A.A., Yel'kina, A.V., and

Nagnibeda, Z.I.

TITLE

Importance of the structure and physical state of

extraction-solvent molecules

SOURCE:

Ekstraktsiya; teoriya, primeneniye, apparatura.

Ed. by A.P. Zefirov and M.M. Senyavin. Moscow, Gosatomizdat, 1962.

TEXT: Taking the criterion of extraction ability as the distribution coefficient, and the ratio B (the number of hydrogen to the number of carbon atoms in the solvent), the authors study the distribution of uranyl, plutonium (IV), zirconium and niobium nitrates. The feed comprised 0.5 - 1 or 2 N aq. nitric acid Extracting with orthoformates and phosphates the extractive ability falls with decreasing B values - steric hindrance playing an important part. With phosphonates the opposite relation holds - the water solubility of the lower homologues and their polymerization being important factors.

Importance of the structure and ... S/830/62/006/001/002/012

The extractive ability of phosphonates increases at the same time loss soluble; however, when the radicals become onparatively falls sharply in spite of reduced solubility. The same holds for relations is contemplated.

Forther work to generalize these There are 15 figures.

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R000103

AZAROV, K. P.; EALANDINA, V. V.; LYUTSEDARSKIY, V. A.

"On the state of transition elements in glass structure."

report submitted for 4th All-Union Conf on Structure of Glass, Leningrad, 16-21 Mar 64.

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R000103

Country USSR Soil Science. Cultivation. Improvement. Category Erosion. Abs Jour RZhBiol., No 6, 1959, No 24665 Author Ivanov, P. K.; Balandina, Ye. I. Inst Deep Plowing in the Southern Chernozems of the Regions beyond the Volga. S. kh. Zavolzh'ya, 1958, No. 8, 28-30 Title Orig Pub Abstract No abstract. Card

BALANDINSKAYA, N. M.

Cand Med Sci - (diss) "Therapy of nonspecific chronic pneumonias by use of aerosols of antibiotics." Voronezh, 1961. 15 pp; (Ministry of Public Health RSFSR, Voronezh State Med Inst); 200 copies; free; (KL, 7-61 sup, 256)

KLYUCHNIKOV, Ivan Ivanovich; ARKHANGEL'SKIY, Andrey Sergeyevich; Prinyali uchastiye: VY80K0SOV, V.I., SOKOLOV, Yu.L., BALANDINSKIY, Ye.D.; SOSNOV, V.D., otv. red.; SILINA, L.A., red. izd-va; IL'INSKAYA, G.M., tekhn. red.

[Cutter-loaders PKG-3 and PKG-4] Prokhodeheskie kombainy PKG-3 i PKG-4. Moskva, Gos. nauchmo-tekhm. izd-vo lit-ry po gornomu delu, 1961. 174 p. (MIRA 14:8) BALANDIS, M.N.; HEL! NIKER, O.S.

The MSU-1 electronic level indicator. Biul.tekh.-ekon.inform.
no.1:37-39 '59. (MIRA 12:2)
(Liquid level indicators) (Electronic measurements)

SERDYUKOV, Mikhail Petrovich; BALANDYUK, A.V., red.; POD"YKL'SKAYA, K.M., tekhn.red.

[The natural resources of Karelia must be utilized to serve the people] Prirodnye bogatatva Karelii na slushbu narodu. Petrosavodak, Gos.isd-ve Kareliakoi ASSR, 1959. 65 p. (MIRA 12:11) (Karelia--Economic policy)

PALANDYUK, G.S., *** tekhn.nauk; SIGALO, Ya.A.

Unified train sheets. Zhel.dor.transp. 43 no.11:87-89 N '61.

1. Nachal'nik sheleznodorozhnogo sekha metallurgicheskogo zavoda, Donetsk (for Sigalo).

(Railroads—Management)

(Railroads, Industrial)

BALANDYUK, G.S., kand.tekhn.nauk, dotsent

Systems of measuring the utilization of the rolling stock in the railroad transportation of industrial enterprises. Trudy MIIT no.143: 104-111 162. (MIRA 15:7)

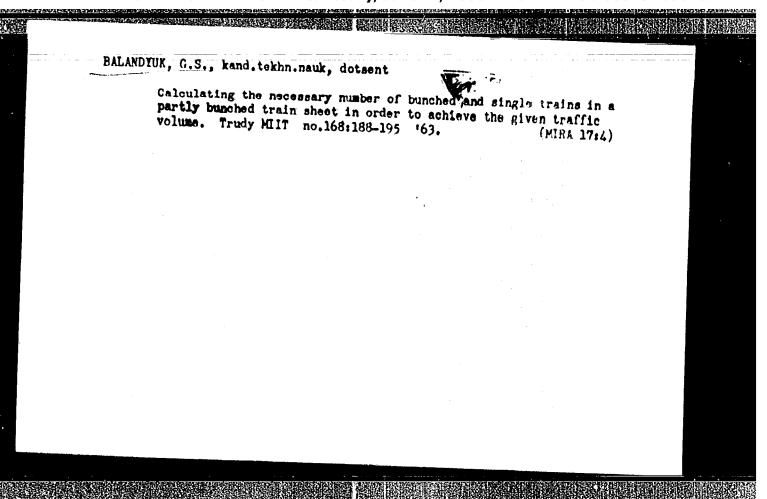
(Railroads, Industrial)

BALANDYUK, C.S., kand.tekhn.nauk, dotsent

Traffic capacity of interdependent track lines and classification points of industrial railroads. Trudy MIIT no.143:54-79 162. (MIRA 15:7)

(Railroads, Industrial)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R000103



RUMANIA / Analytical Chemistry. Inorganic Analysis. Ē Abs Jour : Ref Zhur - Khimiya, No 23, 1959, No. 81960 : Spacu, P.; Radulescu, Elena; Vasilescu, Claudia; Author Balanel, Elena Inst : Not given Title : Separation and Determination of Manganese in Forromanganese Orig Pub : An. Univ. "C. I. Parhon", Ser. stiint. natur., 1958, No 20, 69-77 Abstract : Two methods were applied with improvements to the determination of Mn in ferromanganese under factory conditions: complexometric method (Pribil, R.; Horacek; Z. anal. Chem., 132, 140 (1951)) and ion-exchange method (RZ Khim, No 6, 1955, No. 9697). In the 1st method the sample to be analyzed, containing 30-150 mg Card 1/4

RUMANIA / Analytical Chemistry. Inorganic Analysis.

Abs Jour : Ref Zhur - Khimiya, No 23, 1959, No. 81960

> Mn, is treated with a concentrated HNO3 solution, neutralized with a NaOH solution until the appearance of weak opalescence; 25-30 ml 7% Complexone III solution (I), and 10 ml glacial CH3COOH containing 1 g Ca(CH3COO)₂ (to form a buffer) are added; 1 g PbO₂ (to oxidize Mn⁺² to Mn⁺³) is introduced; this is stirred (1.5 min.), filtered under vacuum, and the residue (excess PbO2) washed with water; the filtrate, containing all of Mn in the form of a Mn (III) complex, is titrated with 0.1 M solution of Mohr's salt. To prevent the decomposition of the Mn (III) complex, the analysis (after the addition of PbO2) should be conducted rapidly, (15 min.). The error of the method is _0.5%. In the 2nd

Card 2/4

13

CIA-RDP86-00513R000103 APPROVED FOR RELEASE: Wednesday, June 21, 2000

RUMANIA / Analytical Chemistry. Inorganic Analysis.

E

Abs Jour : Ref Zhur - Khimiya, No 23, 1959, No. 81960

method the cation exchange resin Amberlite 1R-120 is used; 20% HCl solution (150 ml) is used for the elution of Mn. The resulting solution is neutralized with a concentrated NH40H solution, and Mn is determined by an indirect titration: an excess of 0.1 N solution of 1 [means (I)], 8-10 ml buffer solution (350 ml NH40H + 54 g NH4Cl) are added, and the excess of (I) is back-titrated with 0.1 N. ZnSO4 solution, using Eriochrome Black T as indicator. It was determined that the use of NaOH or KOH (instead of NH4OH) for the neutralization causes high results in the determination of Mn. This method is two times more accurate than the first one, but is more time-consuming; it is also necessary to separate

Card 3/4

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R00016.

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R000103

RUMANIA / Analytical Chemistry. Inorganic Analysis.

E

Abs Jour : Ref Zhur - Khimiya, No 23, 1959, No. 81960

SiO₂ previously. After the separation of Mn, Fe in the solution is determined by a titration with permanganate (after reducing Fe+3 to Fe+2 with electrolytic Cd). -- B. Manole

Card 4/4

14

3h2-9 R/004/62/000/002/001/002 D014/D105

6010.61

Roman, P., Rittenberg, V., Didiv, B., and Balanel, E., (Bucharest)

TITLE:

Production of high-purity silicon single crystals

PERIODICAL:

Electrotehnica, no. 2-3, 1962, 41 - 52

TEXT: The article deals with the principles of pure silicon manufacture and investigations conducted by ICET - Institutul de cercetari electrotehnice (Electrotechnical Research Institute) on the production of high-purity silicon single crystals for transistors and rectifiers. The authors discuss the production of silicon bars by the reduction of trichlorosilane with hydrogen on a specially shaped tantalum wire, and the production of high-purity p-type silicon single crystals by the zone melting process and the single crystal seed drawing method. Described are a zone melting installation and a single crystal seed drawing installation, both made by ICET. Silicon bars, 300 mm long and 16 mm in diameter can be refined in the zone melting installation, supplying pure single silicon crystals with a resistivity of 30-300 cm. The seed drawing installation was built for 150-gr silicon charges, but only 55-80-gr charges

Card 1/2

X.

THE PROPERTY OF THE PROPERTY O

R/004/62/000/002/001/002 D014/D105

Production of high-purity silicon

were subjected to the seed drawing process. The diameter of the seed was 5-6 mm, while the silicon single crystals obtained were 100-110 mm long and 18-25 mm in diameter, with a resistivity of 10-150 cm. In a few exceptional cases, the single crystals had sections where resistivity exceeded 1,000 cm. The results can be improved by increasing the purity of trichlorosilane and by using the method of decomposition on silicon. There are 18 figures and 1 table. The most important English-language reference reads as follows: W.G. Pfann: Trans. A.I.M.M.E., 197, 1952, 747.

ASSOCIATION: ICET

Card 2/2

BALANISIKO, M.S.

Organization of machinery repair in repair and supply stations.

Mekh. sil*. hosp. 9 no.10:12-13 0 58. (MIRA 11:10)

1. Glavnyy insh. Novosandsharskoy remontno-traktornoy stantsii. Poltavskoy oblasti.

(Poltava Province -- Repair and supply stations)

ALEXIU, I., ing.; BALANESCU. C., ing.; CATUNEANU, V., ing. candidat in stiinte tehnice; DANILIUC, N., ing.; RUSU, N., ing.

Elementary commutation directis with magnetic cores. Telecomunicatii 7 no.1:12-18 Ja-F '63.

CATUNEANU, V., ing.; ALEXIU, I., ing.; DANILIUC, N., ing.; BALANESCU, C., ing.

CANADA CONTRACTOR DE CONTRACTOR DE LA CO

Signaling devices with semiconductors for automatic telephone exchanges for institutional use. Telecomunicatii 7 no.2:69-74 Mr-Ap 163.

BALANESCU, E.

AGRICULTURE

Periodicals: REVISTA PADURILOR. Vol. 73, no. 11, Nov. 1958

BALANESCU, E. Mechanization is the way towards increase in productivity and lowering of coats in forest exploitation. p. 635.

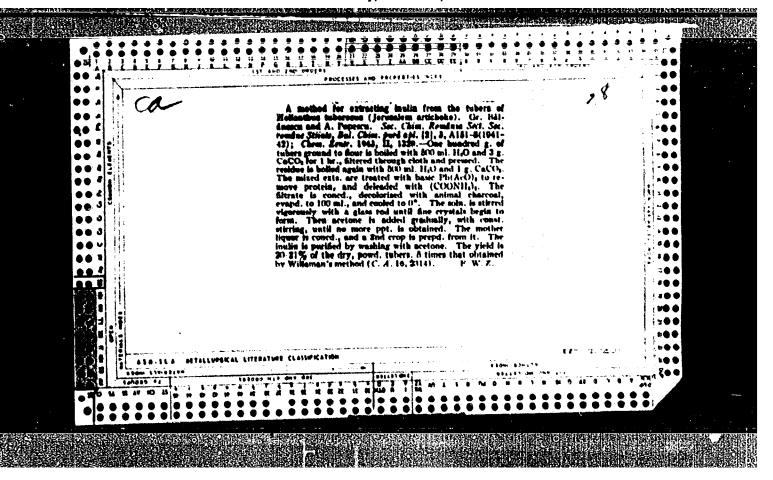
Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2, February 1959, Unclass.

BALAMESCU, G.

Coloring of food products.

2. 162 (REVISTA DE CHIME) (Pucuresti, Rumania) Vol. 8, No. 3, Mar. 1957

30: Monthly Index of Fast European Accessions (MEAI) LO Vol. 7, No. 5, 1953



MITTELMAN, A.; BALANKANU, M.

Internal reserves of increasing the light industry production. Probleme econ 16 no.8:160 Ag*63.

1. Director, Intrepriderea "Teba" (for Mittelman). 2. Inginer Sef, Intreprinderea "Teba", Arad (for Balaneamu).

BALANESCU, Ciprian, ing.; CATUNEARU, Vasile, M., conf.ing., candidat in stlinte tehnice.

Equipment for selecting cores of ferrite in operating conditions and for testing commutation magnetic circuits. Telecomunicatii 7 no.5:199-205 8-0*63

VOICHLESCU, A.; BAIANESCU, F1.

irculatory and respiratory adapatation in arterial hypertension. riziol. norm. pat. 11 no.2:143-152 Mr-Ap 165.

1. Institutul de expertiza medicala si recuperarea capacitati de munca.

STEINBACH, M.; LAZAROVICI, MIRIOM; DOD, C.; FOBORAM, A.; KYDELFSCH, Raisa; CRAESCU, I.; BALARESCU, G.

Physico-chemical composition, fatty acid content and therapeutic value of some vegetable oils, fish oils and marine mammal oils of our country. Sind. corect. med. interm. 5 no.51555-566 164

1. Institutul de medicina interna al Arademiet R publicti l'opulare Romine si Ministerul Sanatatii si Prevederilor Sociale (for Stelnbach, Iazarovici). 2. Institutul de cercetari alimentare al Ministerului Industriel Alimentare (for Ille, l'oboran, Redelsecu, Craesou, Balanesou).

BALANESCU, Gr., dr.

Ultrasound and its application in the food industry. Ind alim veget 13 no.2:38-44 F '62.

1. Institutul de cercetari alimentare.

Welding in the construction of roller bridges. METALURGIA SI CONSTRUCTIA DE MASINI (Metallurgy and Machine Construction.) 2:8Feb 55

BALLA MESCU, 1.

The 5-ton portal crane. p. 298.

METALURGIA SI CONTRUCTIA DE MASNI. (Ministerul Industriel Metalurgice si Constructiilor de Masini si Asociatia Stiintifică a Inginerilor si Technicienilor di Romina.) Bucuresti, Rumania; Vol. 11, no. 4, Apr. 1959

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 9,/1959

Uncl.

BALANESCU, 1

Development of cals montype metallic constructions for traveling cranes. p.591.

METALUFGIA SI CONSTRUCTIA DE MASINI. (Ministerul Industriei Metalurgice si Constructiilor de Mesins si Asociatia Stiintifica a Inginerilor si Tehnicienilor din Rominia) Bucuresti, Rumania V ol. 11, no.7, July 1959

Monthly List of East European Accessions (EEAI) IC, Vol. o, no. 2 Feb. 1960 Uncl.

EALANESCU, 1.; NICULESCU, P.; FURINIANA, L.

Effect of Antibiotics upon thrombin. p. 265. COMUNICARILE. Bucuresti. Vol. 5, no. 1, Jan. 1955

Source: East European Accessions List, (EEAL), Lc, Vol. 5, No. 3, March 1956

BALANESCU, I.; NICULESCU, F.; BURUIANA, L.

Bffect of tissual extracts of animal origin (extracts of placenta and of vitreous humor of Bovidae) upon the germinations of corn and the activity of phosphatase and pectase during germinations. p. 1065.

Academia Republicii Populare Romine. COMUNICAILE.

Bucuresti.

Vol. 5, no. 7, July 1955

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 5, No. 12, December 1956

R/009/60/000/010/005/009 A125/A126

Establica de la compactación de la

AUTHOR:

Bălănescu, I., Engineer

TITLE:

Modernization of a sheet metal planer

Metalurgia și Construcția de Mașini, no. 10, 1960, 883 - 884 PERIODICAL:

The article reviews the modernization of a sheet metal planer TEXT: having the following characteristics: thickness of the sheet, maximum 40 mm, cutting speed, 2.5 m/min; fastening of the sheet by hand driven screws; individual drive by an electric motor through two belts and an intermediary shaft; mechanical reversion by successive driving of the planer disc. The modernization principles were: mechanization of the sheet fastening system, accomplishment of a higher speed range, elimination of the belt transmission, and electric reversion. The sheet is now fastened by 8 pneumatic cylinders with a double action of 220 mm, developing a power of 2,000 kg and 6 atm. The electric motor has been coupled by a pinion to the gear of the planer's driving shaft. An "M-71-10" electric motor has been used with 600 rpm, 11 kg at 40% ED and two shaft ends. By introducing a resistance into the circuit, the revolution of the motor became variable between 360

Card 1/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R000103

Modernization of a sheet metal planer

R/009/60/000/010/005/009 A125/A126

and 600 rpm. A pinion which drives the gear of the planer shaft is mounted on one end of the motor shaft. On the other end there is a brake disc assembled, which is provided with magnetically controlled brake shoes, 300 mm in diameter. The brake stops the motion of the planer within 1 - 2 sec. The motor is installed on a frame made of V 20 rolled steel. The reversion of the electric motor is accomplished by reversing two phases with two CD and CS contactors, controlled by the hub limits. An RT timing relay was installed into the control circuit, for the braking time has exceeded the coupling time of the reversing contact. In case of high-speed operation, the motor resistance is shortened by a CRS switch. The electric control is accomplished by a box equipped with three BF 6 buttons, two of which are used for the reversing operation and one for the stopping. To facilitate the operation, 4 button boxes are installed on the planer. The motor is protected by fuses as well as thermal and electromagnetic relays. There are

Card 2/2

"Complex mechanisation and automation in the construction of machines and apparatus" by A.N. Rabinovici. Reviewed by I. Balanescu. Constr. mas 15 no.4:341 Ap *63.

triceries in the section in

BALANESCU, Ion, ing.

New trends in crane construction. Metalurgia construss 8 no.11967-974 N 161.

(Cranes, derricks, etc.)

APPROVED FOR REFERENCE WOMESTON TIME IT PORTING THE REPORT OF THE PROPERTY OF

BALANESCU, Ion

Tolerances regarding the traveling crane tracks. Metalurgia constr mas 14 no.7:635-638 Jl '62.

1. Uzina de utilaj chimio, Buouresti.

APPROVED FOR THE FASE WEEDINGRY DURE 23 2001. LANGUE GENERAL MINNEUR

BALANESCU, Ion, ing.

A new laboratory for welding control. Metalurgia si constr mas 15 no.3:264-267 Mr *63.

1. Usina Vulcan, Bucuresti.

"Atlas of lines of force in machine parts" by W. Kloth.
Reviewed by I. Balanescu. Constr res 15 no.5:410 My '63.

"Album for welding auxiliary equipment" by L.V. Emelianov, L.A. Jivotinski, A.D. Gitlevici. Reviewed by I. Balanescu. Constr mas 15 no.5:409 My '63.

"Special cranes for assembling thermoelectric power stations" by A.S. Prosin. Reviewed by T. Balanescu. Metalurgia si construes 15 no.3:280-281 Mr 163.

"Speed reducing and speed change gears" by B. Horovitz. Reviewed by I. Balanescu. Constr mas 15 no.6:471 Je '63.

BATANESCU, I.

"Cold bending of tubes; methods and machines" by D.F.Wolf. Reviewed by I.Balanescu. Constr mas 15 no.72 538 J1163.

"New methods of metallic coverings" by I. Teindl. Reviewed by I. Balanescu. 538

"Hoisting and transporting machine assembling" by M.Baliev, G.Zelianok, A.V.Kovtunov. Reviewed by I.Balanescu.
Constr mas 15 no.8:604-605 Ag*63

"Values of the distortion in rigidified right-angled plates" by Klopel, Schoer. Reviewed by I. Balanescu. 605.

"Conduits in the chemical industry" by E.A. Ivanov, A.V. Sepelev, E.V. Lialin. Reviewed by I. Balanescu. Construss 15 no. 9:667 S '63.

"Hydraulics in industrial workshops" by H. Kirchbach. Reviewed by I. Balanescu. Tbid.:667-668.

BALANESCU, Ion

New constructive solution in the field of portal cranes. Constructs 16 no.4:200-207 Ap.64

BALANESCU, 1.

"Form and calculation of welded constructions" by A. Erker, A.W. Hermser, A. Stall. Reviewed by I. Balanescu. Constr mas 16 no.71401 Jl '64.

BALANESCU, Ion

A new stand for reducer testing and run-in. Constr mas 17 no.1:22-26 Ja 165.

BALANESCU, I. N., conf. univ.

Some philosophical aspects of cyberretics. St si Teh Buc 13 no.7:38-39 J1 161.

BALANESCU. I. N.
SURVANE (In Cupu); Given Names

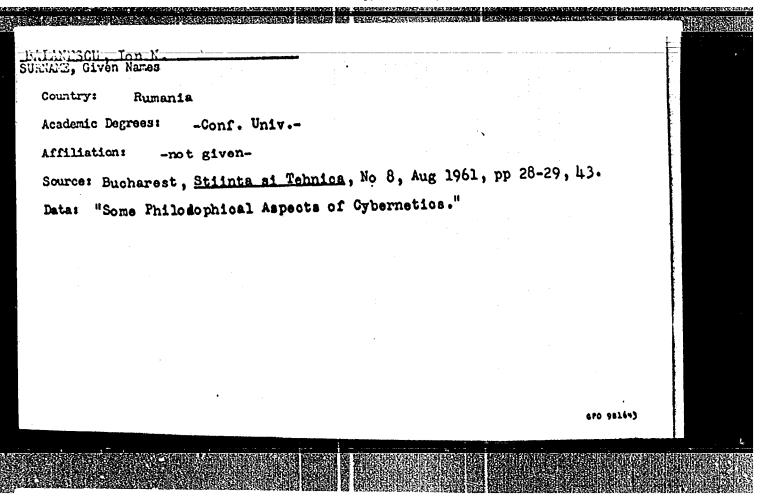
Country: Sumania

Academic Degrees: #Conf. Univ.-

Affiliation: -not given-

Source: Bucharest, Stiinta si Tehnica, No 7, Jul 1961, pp 38-39.

Data: "Some Philosophical Aspects of Cybernetics."



BALANESCU, I.N., MOSCU, I.

Contributions to the study of fatigue in industrial labor through studies of physical states. Rsv psihologie 9 no.1: 7-36 '63.

ENIANTSCU, ion N.

Some problems of the hypnotic phases and the law of force.

Rev psihologic 9 no.1:77-114 163.

BALANESCU, I.N.; MOSCU,I.; GHEORGHIU,V.; MINZAT,I.; VRANCEANU,M.

Studies on the motor reaction to the action of words during sleep. Rev psihologie 10 no.1:23-39 164

BALAMESCU, I.N.; IANCU, I.: PUFAN, C.; POPECU, I.: GOLU, M.: CAMARICEU, A.; CONSTANTINESCU, P.

Contributions to the study of the world of the young generation. Rev psihologie 11 no.1:5-21 '65.

1. Chair of Psychology of the University of Ducharest. Submitted August 12, 1964.

NRLLER, Oscar.,; BALANESCU, I.V.

Tomographical data on the relation between tuberculosis in children and in adults. Bul. stiint., sect. med. 7 no.2:469-485 Apr-June 55.

(TUBERCULOGIS PULMCMARY, diagnosis
tomography, comparative study of adults & child)
(ROMNTGENOGRAPHY
tomography in tuberc., pulm., in adults & child)

VLADESCU, R.; BALANESCU, I. V.

Study of phosphatases in tuberculosis. Prohl. ter., Bucur. 3:111-115 1956.

(TUBERCULOSIS PULMONARY, blood in phosphatase, acid & alkaline, diag. & progn. value of determ.)
(PHOSPHATASES, in blood acid & alkaline, in pulm. tuberc., diag. & progn. value of determ.)

OERIU, S.; BALANESCU, I. V.; BURUIANA, L.; HADARAG, EI.; MICULESCU, P.

Effect of sodium salicylate on testicular hyaluronidase; preliminary note. Probl. ter., Bucur. 3:139-145 1956.

1. Membru corespondent al academiei R.P.R. (for Oeriu)
(TESTES, metabolism

hyaluronidase, in extracts of bovine testis, eff. of sodium salicylate in various concentrations in substrata if varying pH)

(HYALURONIDASE, metabolism in extracts of bovine testis, eff. of sodium salicylate in various concentrations in substrata of varying pH)

BALA NESCU, Liti

RUMANIA/Pharmacology. Toxicology. Antibiotics.

Abs Jour: Ref. Zhur. - Biol., No. 22, 1958, 102953

Oeriu, S.; Balanescu, I.V.; Buruiana, L.; Hadarag, El.; Niculescu, P. Author :

Inst

The Effect of Some Antibiotics and Synthetic Title

Chemical Substances on Hyaluronidase and

Hyaluronic Acid.

Orig Pub: Probl. terap., 1956, 3, 159-172

The influence of streptomycin, preparation I2 Abstract:

(sulfosalicylate-allyithiocyanate-streptomycfn), pencillin as well as PAS, sulfosalicylic and salicylic acids on the system of hialuronidase (I) - hyaluronic acid (II) was studied. All these substances activate the I-II system.

Pencillin stimulates it in small concentrations

Card 1/2

RUMANIA/Pharmacology. Toxicology. Antibiotics.

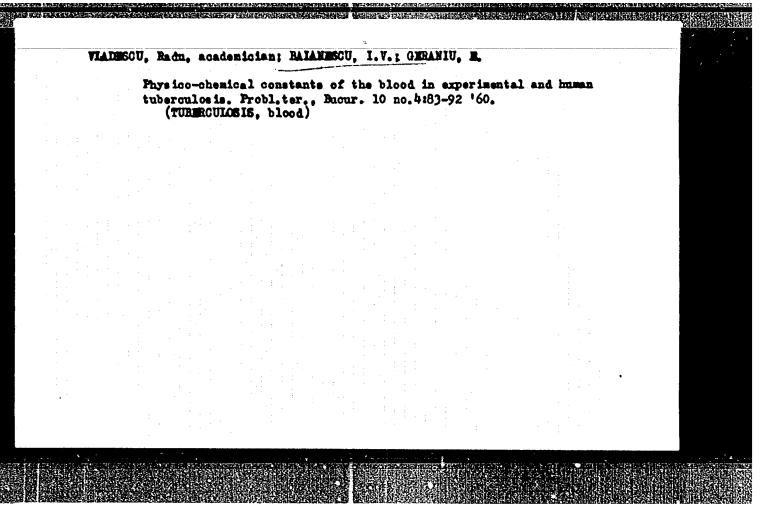
٧.

Abs Jour: Ref. Zhur. - Biol., 22, 1958, 102953

(1-100 units per l ml), inhibits it in larger (500-1000 units per l ml). Fermentative depolymerization of II under the influence of I takes place slowly in vitro, and depolymerization, induced by the above-mentioned means, takes place quickly. The speed of depolymerization depends on the dose. Sodium sulfosalicylate acts strongest of all and particularly so the preparation I2. This corresponds well with the great speed of I2 penetration into the tissues (into the liquor in experiments on dogs and in the clinic) established previously. Bibl. 16 items.—A. G. Brusilovskaya

Card 2/2

35



BALANESCH, I.V.; TANASE, I.; GEORGESCU, C.

Contribution to the study of pyruvic and &-ketoglutaric acids in experimental and human tuberculosis. Stud. cercet. med. intern. 2 no.2:259-263 '61. (TUBERCULOSIS, PULMONARY blood) (PYRUVATES blood) (KETO ACIBS blood)

: Alanescu, H.

Construction of a dam for supplying water to a thermoslectric-power station. p.583
INDUSTRIA CONSTRUCTION 3I A MATERIALELOR DE CONSTRUCTIL, Bucuresti, Vol 6, No. 11,
Nov., 1955

SO: East European Accessions List (EEAL) Library of Congress, Vol 5, No. 7, July, 1956

BALANESCU, Mihai, ing.

Motorcar, boat, and airplane transportation during the first years of the six-year plan. Rev transport 11 no. 1: 1-6 Ja 164.

1. Adjunct al Ministrului Transporturilor si Telecomunicatiilor.

ACCESSION NR. AP4034906

8/0181/64/006/005/1311/1313

AUTHOR: Berger, L. I.; Balanevskaya, A. E.

TITLE: Heat expansion, thermal conductivity, and modulus of elagricity of certain ternary semiconductor compounds of the AZBIVC3 VI type

SOURCE: Fizika tverdogo tela, v. 6, no. 5, 1964, 1311-1313

TOPIC TAGS: Cu sub 2 GeS sub 3, Cu sub 2 SnS sub 3, Cu sub 2 GeSe sub 3, Cu sub 2 Sn &e sub 3, thermal expansion coefficient, thermal conductivity, ultrasound propagation velocity, modulus of elasticity

ABSTRACT: The linear coefficient of thermal expansion, the thermal conductivity of and the propagation velocity of ultrasound in specimens of Cu₂GeS₃, Cu₂SnS₃, Cu₂GeSe₃, and Cu₂SnSe₃ have been measured at near room temperature. The expansion coefficient (a) was measured for polycrystalline cylindrical specimens with the use of equipment described by L. I. Berger (Authors' Certificate No. 155974, 1963).

Cord 1/3

ACCESSION NR. AP4034906

The propagation velocity (v) of longitudinal ultrasound waves was measured with an UZD-1H instrument at frequencies of 2.5 and 5.0 Mc. The densities (p) of the individual substances necessary for determining the moduli of elasticity (E) were taken from a study by L. S. Palatnik et al (Kristallografiya, v. 6, p. 960, 1961). The thermal conductivity (x) of the crystalline lattice was measured with equipment recommended by A. F. Ioffe (Fizika poluprovodnikov, p. 412, Ed. House of the AS USSR, H-L, 1957). The results of the experiments are given in a table and plotted as x versus $\frac{T_8}{H}$, a versus $\frac{H}{T_8}$, and $\frac{E}{\rho}$ versus $\frac{T_8}{H}$ curves, where H is the molecular weight and T the melting point. The results obtained were used to verify the theoretical relationships $\frac{1}{X} \sim a^2$, $\chi \sim \left(\frac{T_8}{H}\right)^{1/2}$, $a^{\chi} \left(\frac{T_8}{H}\right)^{-1/4}$, and $E^{\chi} \frac{T_8}{H}$ estabelished by T. A. Kantorova (2h T F. 26, 2021, 1956) and L. I. Berger (Sb. "Voprosy metallurgii i metallovedeniya," p. 157, Hetallurgizdet,

ACCESSION NR. AP4034906

M, 1962). The theoretical data and experimental results were found to be in a good agreement. It is concluded that the above formulas hold true both for simple compounds and for more complex binary and ternary compounds, provided that the nature of the atomic interaction forces for individual substances differs but little. Orig. art. has: 3 figures and 1 table.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh reaktivov i osobo chistykh khimicheskikh veshchesty, Hoscow (All-Union Scientific Research Institute of Chemical Reagents and Extra-Pure Chemical Substances)

SUBMITTED: 210ct63

DATE ACQ: 20May64

ENCL: 00

SUB CODE: CH.PH.

NO. REFTSOY: 009

OTHER: 000

Cord 3/3

- 10 (2/2)

PPROVED FOR RELEASE. Wednesday June 21, 2007

BALANEVSKAYA, A.E.; BFRGER, L.I.; PECHENNIKOV, A.V.; CHECHERNIKOV, V.I.

Magnetic properties of a series of ternary semiconductor compounds of the A^IB^{III} C^{VI} type with chalcopyrite structure. Izv. AN SSSR. Neorg. mat. 1 no.12:2165-2166 D '65.

(MIRA 18:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh reaktivov i osobo chistykh khimicheskikh veshchestv. Submitted July 8, 1965.

BALANICA, T.

"Book on forestry; a review". p. 184, (REVISTA PADURILOR, Vol. 69, No. 4, Apr. 1954, Bucuresi, Rumania)

SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 3, No. 12, Dec. 1954, Uncl.

"Present position and prospects for development of forest netereology in the light of Soviet recearch", p. Mal, (NEVER'M PARCELLE, Vol. 69, No. 10, Oct. 1984, Ducumesti, Rumania)

So: Monthly Lies of East European Accessions, (EML), IC, Vol. 4, No. 4, April 1995, Uncl.

BALANICA, T.

The Institute for Research on the Mechanization of Silvicultural Work and Forest Exploitation. p. 345. REVISTA PADURILOR. (Associatia Stiintifica a Inginerilor si Technicienilor din Rominia si al Ministerului Agriculturii si Silviculturii) Bucuresti. (Journal on forestry issued by the Scientific Association of Engineers and Technicians of Rumania and the Ministry of Agriculture and Forestry; with Russian summaries. Monthly) Vol. 70(i.e. 71), no. 6,

SOURCE:

East European Accessions List, (EEAL) Library of Congress, Vol. 5, no. 11, November, 1956.

APPROVED FOR REFEASE WEATERNAY THE TAY TO THE TAY RIPER TO THE TAY REPORT TO THE TAY T

PALANICA, T.

Meterologic documentation of silviculturists. p. 275.

REVISTA PADURILOR

Vol. 71, no. 5, May 1956

Romania

Source: EAST EUROPEAN LISTS Vol. 5, no. 10 Oct. 1956

BALANICA, T.

Rumanian forestry science.

p. 557 (Revista Padurilor) Vol. 71, no. 9, Sept. 1957, Bucuresti, Rumanfa

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (REAI) LC, VOL. 7, NO. 1, JAN. 1958

MEMANIA / Soil Science. Physical and Chemical Properties of Soils.

Abs Jour: Ref Zhur-Biol., No 21, 1958, 95691.

Author : Balanica, T.

Inst : Experiment Stations of the Scientific Rosearch

Forest Institute (Snagov and Baragan).

Title : Temperature Changes in the Soil in 1956 on the

Experiment Stations of the Scientific-Research

Forest Institute (Snagov and Baragan).

Orig Pub: Rev. padurilor, 1957, 71, No 12, 756-760.

Abstract: Features are described of the microclimate of

soils on the experiment stations in the region of Baragan in the southwestern part of the Kamorey Valley and in Snagov in the open plain (RPR).

Card 1/1

THE PARTY OF THE P

BORODZYUK, G.G.; STEPANOV, G.H.; DRIATSKIY, N.M.; IOHTOV, L.Ye.; KOVALEV. S.M.; BLOKHIN, A.S.; DVORTSOV, L.D.; LUGOVSKOY, M.Ye.; MERKULOV, A.G.; SMIRNOV, B.P.; ROGINSKIY, E.M.; BALAN-IL'YBYSKAYA, I.A.; IZRAILIT, S.G.; GRANAT, M.B.; ZARIN, S.A., OVV. red.; FEDOROVSKAYA, L.M., red.; MARKOCH, K.G., tekhn.red.

> [Multichannel apparatus for high-voltage telephony on overhead lines and cables] Mnogokanalinaia apparatura vysokochastotnogo telefonirovaniia po vozdushnym i kabel nym liuliam stali po Gos.isd-vo lit-ry po voprosam sviazi i radio, 1959. 511 p.
> (MIRA 14:1) telefonirovaniia po vosdushnym i kabel'nym liniiam sviasi. Moskva,

(Telephone--Equipment and supplies)

3(9) AUTHOR:

Balanin, A. S.

SOV/50-59-10-13/25

TITLE:

Observations of the Wave Elements at Night

PERIODICAL:

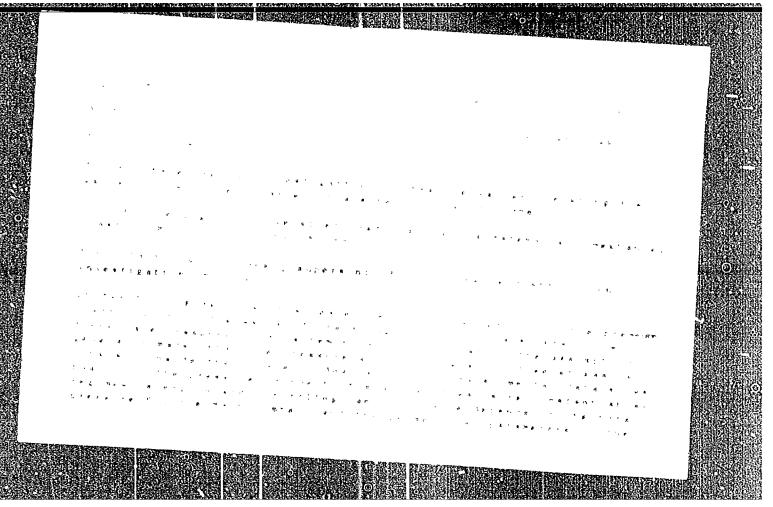
Meteorologiya i gidrologiya, 1959, Nr 10, p 34 (USSR)

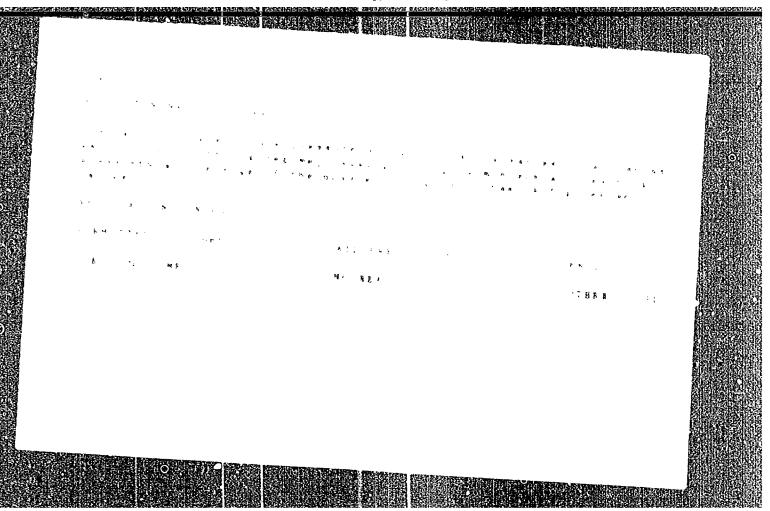
ABSTRACT:

The Hydrometeorological Marine Station of Yalta made observations of the sea at night at two places. Wave-gauge perspectographs were placed 10 and 40 m above sea level, by means of which the floating of buoys was observed which had been anchored at a distance of 300 and 740 m and were floodlighted. The floodlights moved horizontally and vertically. The observations covered the kind and form of motion of the sea, the direction of wave propagation, wavelength, and wave period. Only the length and velocity of high waves can be determined. The Station further observes the development and attenuation of storms. The development of sea motion is usually observed as soon as the waves have attained a height of 0.5 m with simultaneous measurement of the velocity and direction of the wind.

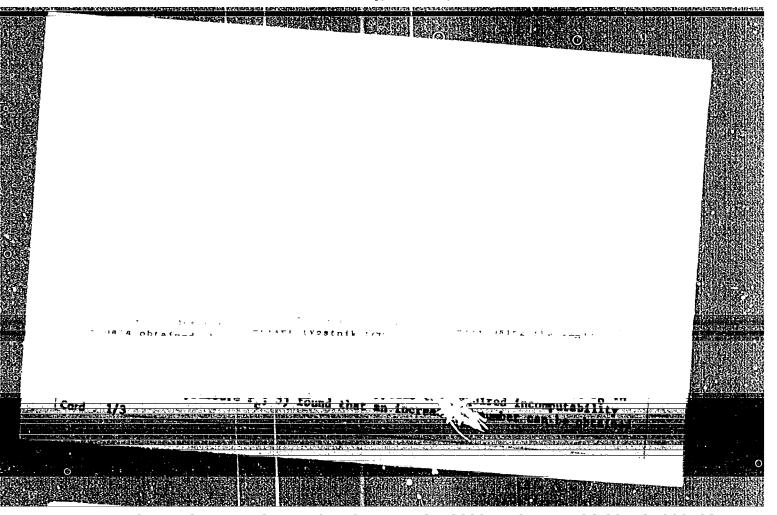
Card 1/1

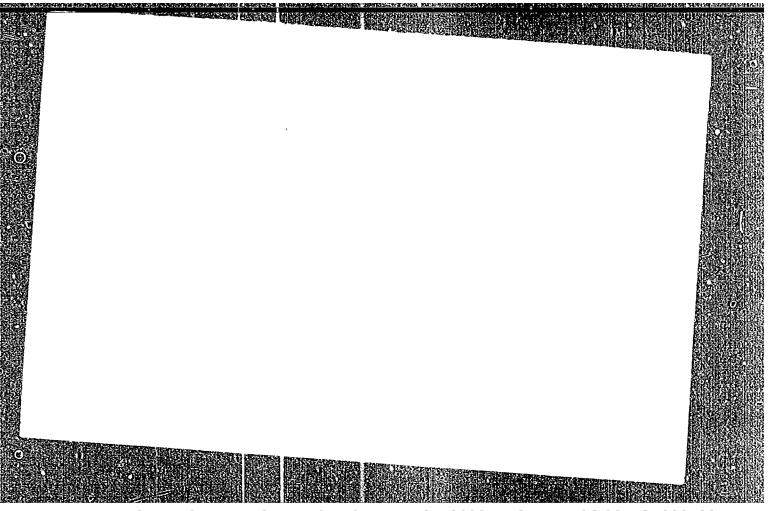
"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R000103



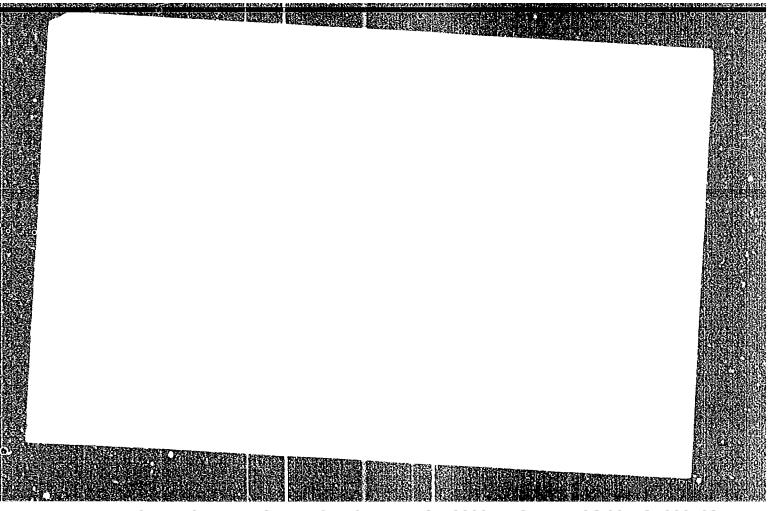


"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R000103



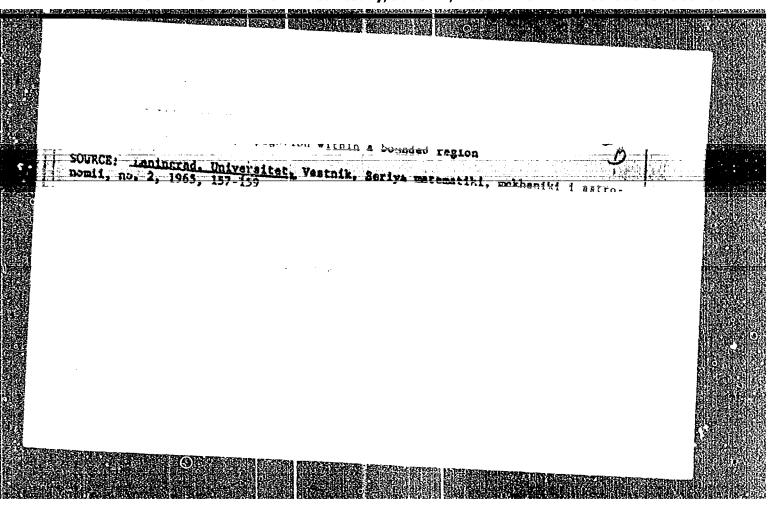


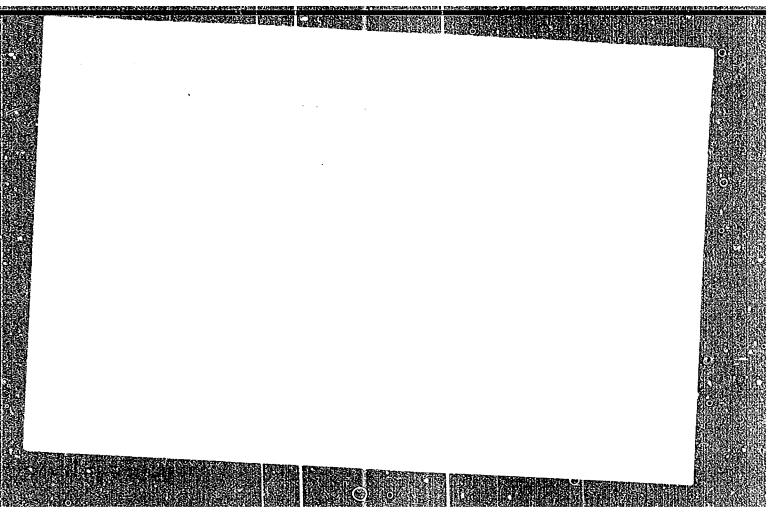
APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R000103



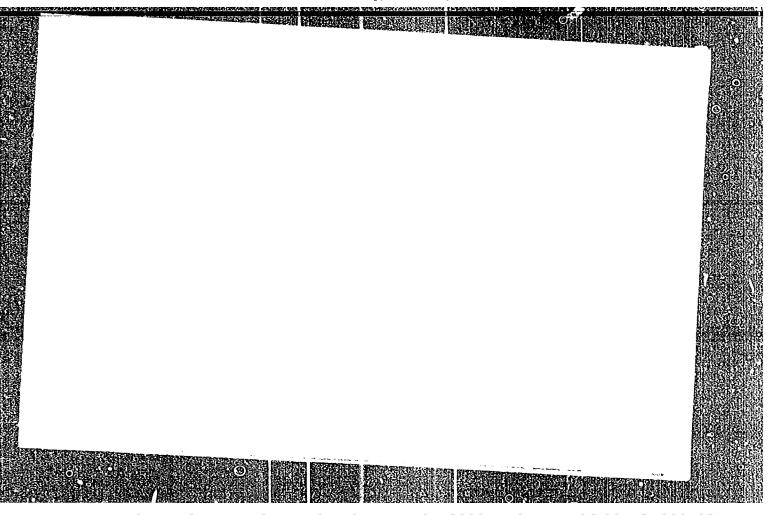
APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R000103

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R000103





APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R000103



APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R000103

